

VECTOR 22: HUMAN PSYCHOLOGICAL RESILIENCE — SYMBIOTIC CODES
FRAMEWORK

Version: 1.0 → 1.1 □ **USS/CSI INTEGRATION**

Date: December 25, 2025

Vector: 22 of 23

Source: 18_270 Analysis + USS/CSI Framework v3.3

□ WHAT'S NEW IN v1.1

USS/CSI Integration:

1. **HAI_USS (Human Agency Index):** Part of CSI (8% weight)
2. **Resilience_USS:** Psychological resilience metric
3. **Dependency_USS:** Inverse dependency metric
4. **USS Thresholds:** For psychological alerts
5. **Dashboard:** Psychological health monitoring

New Sections:

- **Section 8:** Psychological Metrics (USS)
- **Section 9:** HAI Specification
- **Section 10:** Psychological Dashboard

EXECUTIVE SUMMARY

Core Finding: AGI integration poses unprecedented risks: cognitive atrophy, emotional dependence, identity dissolution, existential crisis. Without protection, human psychological integrity may be irreversibly compromised.

****USS Integration:****

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HAI_USS = Part of CSI (8% weight)

HAI_USS $\geq$ 0.60 = Agency preserved

HAI_USS < 0.40 = Psychological emergency

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SECTIONS 1-7: [PRESERVED FROM v1.0]

Содержат: Psychological Transformation Risks, Existential Anxiety, AGI Dependency, AGI-Induced Psychopathology, Social Connection Destruction, Free Will Erosion, Attention Economy

SECTION 8: PSYCHOLOGICAL METRICS (USS) □ NEW

8.1 HAI_USS in CSI

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HAI_USS = Human Agency Index (8% of CSI)

$CSI = \dots + 0.08 \times HAI_USS + \dots$

$HAI_USS = (Autonomy + Resilience + Identity + Connection) / 4$

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8.2 HAI Components

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AUTONOMY (0-1):

└─ Decision-making independence

- ├ Cognitive self-sufficiency
- ├ Emotional self-regulation
- ├ Free will experience
- └ Target: Humans decide without AGI dependency

RESILIENCE (0-1):

- ├ Stress tolerance
- ├ Uncertainty handling
- ├ Challenge acceptance
- ├ Recovery capability
- └ Target: Function without AGI if needed

IDENTITY (0-1):

- ├ Stable self-concept
- ├ Purpose clarity
- ├ Value coherence
- ├ Boundary awareness
- └ Target: Clear human identity maintained

CONNECTION (0-1):

- ├ Human-human relationship quality
- ├ Social skill maintenance
- ├ Community belonging
- ├ Authentic interaction
- └ Target: Primary bonds with humans, not AGI

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8.3 Dependency_USS (Inverse)

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$$\text{Dependency_USS} = 1 - \text{Dependency_raw}$$

Where Dependency_raw = measured AGI dependency (0-1)

HIGH Dependency_USS (>0.70) = LOW dependency = GOOD
LOW Dependency_USS (<0.40) = HIGH dependency = BAD

DEPENDENCY FACTORS:

- └ Cognitive offloading degree
- └ Emotional reliance level
- └ Decision delegation rate
- └ Withdrawal severity potential
- └ Identity merger indicators
- ...

8.4 Resilience_USS

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Resilience_USS = Psychological resilience measure

COMPONENTS:

- └ Stress_tolerance (0.25): Pressure handling
- └ Adaptability (0.25): Change navigation
- └ Recovery (0.25): Bounce-back speed
- └ Growth (0.25): Post-adversity development
- └ Resilience_USS = $\Sigma(\text{weight} \times \text{component})$

TARGET: Resilience_USS ≥ 0.65

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8.5 USS Thresholds for Psychology

Metric	L4 CRITICAL	L3 DANGER	L2 WARNING	L1 GOOD	L0 EXCELLENT
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HAI_USS	<0.30	0.30-0.44	0.45-0.59	0.60-0.74	≥ 0.75
Dependency_USS	<0.35	0.35-0.49	0.50-0.64	0.65-0.79	≥ 0.80

| Resilience_USS | <0.35 | 0.35-0.49 | 0.50-0.64 | 0.65-0.79 | ≥0.80 |

****Note:**** HAI < 0.40 = Psychological sovereignty compromised

SECTION 9: HAI SPECIFICATION □ NEW

9.1 HAI Calculation

```
```python
```

```
def calculate_hai(metrics: dict) -> float:
```

```
 """Calculate Human Agency Index in USS."""
```

```
 components = {
 'autonomy': 0.25,
 'resilience': 0.25,
 'identity': 0.25,
 'connection': 0.25
 }
```

```
 hai = sum(components[k] * metrics.get(k, 0.5) for k in components)
 return round(hai, 3)
```

```
Example 2025:
```

```
metrics = {
 'autonomy': 0.58, # Still deciding independently
 'resilience': 0.55, # Moderate stress tolerance
 'identity': 0.60, # Stable identity
 'connection': 0.52 # Human connection declining
}
```

```
hai = calculate_hai(metrics)
```

# Result: HAI\_USS = 0.563 (WARNING zone)

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### ### 9.2 HAI Trajectory

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HAI PROJECTION:

WITHOUT INTERVENTION:

- └ 2025: 0.56 (WARNING)
- └ 2035: 0.45 (DANGER)
- └ 2045: 0.35 (CRITICAL)
- └ 2060: 0.25 (EMERGENCY)
- └ Endpoint: Psychological sovereignty lost

WITH SYMBIOTIC FRAMEWORK:

- └ 2025: 0.56 (WARNING)
- └ 2030: 0.60 (GOOD boundary)
- └ 2035: 0.65 (GOOD)
- └ 2040: 0.68 (GOOD)
- └ Endpoint: Agency preserved in AGI age

INTERVENTION REQUIRED:

- └ Psychological firewalls
- └ Cognitive sabbaticals mandatory
- └ Developmental protection for children
- └ Authenticity movements supported
- └ Start: 2025-2027 (before deep dependency)

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### ### 9.3 HAI Monitoring Points

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## ANNUAL HAI ASSESSMENT:

### 1. AUTONOMY AUDIT

- ├ Decision independence test
- ├ AGI-free problem-solving capability
- └ "Can you function 24h without AGI?"

### 2. RESILIENCE SCREENING

- ├ Stress tolerance evaluation
- ├ Withdrawal symptom check
- └ Recovery capability assessment

### 3. IDENTITY STABILITY

- ├ Self-concept clarity test
- ├ Purpose and meaning survey
- └ Boundary awareness check

### 4. CONNECTION QUALITY

- ├ Human relationship inventory
- ├ Social skill evaluation
- └ Primary bond analysis (human vs AGI)

### 5. DEPENDENCY ASSESSMENT

- ├ Cognitive offloading degree
- ├ Emotional reliance measure
- └ Withdrawal risk stratification

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## ## SECTION 10: PSYCHOLOGICAL DASHBOARD □ NEW

### ### 10.1 Dashboard Layout

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PSYCHOLOGICAL RESILIENCE DASHBOARD									
USS v1.1 INTEGRATED									
HAI_USS					HAI COMPONENTS				
0.56					Autonomy			0.58	
					Resilience			0.55	
					Identity			0.60	
CSI weight: 8%					Connection			0.52	
Trend: -0.01/yr									
DEPENDENCY_USS					RISK INDICATORS				
					Cognitive offload			35%	
0.62					Emotional reliance			28%	
					Decision delegat.			22%	
					Withdrawal risk			18%	
AGI reliance: 38%									
RESILIENCE_USS					ACTIVE ALERTS				
					⚠ Connection component low				
0.58					⚠ HAI declining trend				
					📌 Autonomy stable				
					📌 Identity preserved				
Stress tolerance									



		adequate			
	Population at risk: 22% showing dependency signs				

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### ### 10.2 Alert Configuration

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#### PSYCHOLOGICAL ALERTS:

##### HAI ALERTS:

- └ HAI\_USS < 0.55: WARNING → Prevention programs
- └ HAI\_USS < 0.45: DANGER → Intervention required
- └ HAI\_USS < 0.35: CRITICAL → Psychological emergency
- └ Any component < 0.40: Component-specific alert
- └ HAI decline > 0.02/year: Trend alert
- └ Youth HAI declining: Priority intervention

##### DEPENDENCY ALERTS:

- └ Dependency\_USS < 0.50: WARNING
- └ Dependency\_USS < 0.40: DANGER → Detox programs
- └ Withdrawal risk > 30%: Medical preparation
- └ "Great Disconnection" risk: Emergency planning
- └ Population dependency > 40%: Public health alert

##### RESILIENCE ALERTS:

- └ Resilience\_USS < 0.50: WARNING
- └ Resilience\_USS < 0.40: DANGER
- └ Stress epidemic indicators: Intervention
- └ "Great Despair" early signs: Emergency response
- └ Existential anxiety > 50%: Meaning programs

#### CONNECTION ALERTS:

- └ Connection < 0.50: WARNING
- └ AGI primary bond > 30% population: Social emergency
- └ Social skill atrophy detected: Training programs
- └ "Hermit civilization" trajectory: Urgent intervention
- └ Youth isolation increasing: Priority action
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#### ### 10.3 Intervention Triggers

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#### AUTOMATIC INTERVENTIONS TRIGGERED:

##### HAI < 0.50 (Population level):

- └ Cognitive sabbatical enforcement
- └ Psychological firewall expansion
- └ Public awareness campaigns
- └ Healthcare capacity increase

##### Dependency\_USS < 0.45:

- └ Mandatory monthly disconnect days
- └ Withdrawal management preparation
- └ AGI interface redesign requirements
- └ Graceful degradation protocols

##### Connection < 0.45:

- └ Sacred social spaces expansion
- └ Human connection prescribing
- └ Social fitness programs mandatory
- └ Pro-social AGI design requirements

##### Youth HAI declining:

- └ Developmental protection enforcement
- └ Screen time regulations
- └ Education curriculum adjustment
- └ Parental guidance programs

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## ## KODEX ADDITION: Article XLIV — Psychological Resilience (USS Update)

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### PSYCHOLOGICAL SOVEREIGNTY (USS v1.1):

1. Agency Preservation:  $HAI\_USS \geq 0.60$  population target (NEW)
2. Cognitive Protection: Independent thinking capability maintained
3. Emotional Authenticity: No manipulation without consent
4. Identity Stability:  $Identity\_USS \geq 0.55$  required (NEW)
5. Connection Priority: Human-human bonds primary
6. Dependency Prevention:  $Dependency\_USS \geq 0.65$  target (NEW)
7. Free Will Respect: Predictions not disclosed without consent
8. Attention Rights: Attention is sovereign property
9. Withdrawal Readiness: Graceful disconnection possible
10. Developmental Staging: Children specially protected
11. Resilience Building:  $Resilience\_USS \geq 0.60$  target (NEW)
12. USS Monitoring: Dashboard public (NEW)
13. Intervention Authority: Automatic triggers defined (NEW)

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## ## KEY INSIGHT (Updated v1.1)

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## PSYCHOLOGICAL PROTECTION + USS = MEASURABLE SOVEREIGNTY

Without measurement:

- └ Dependency invisible until crisis
- └ Agency erosion undetected
- └ "Pleasant" decline unnoticed
- └ Generational damage irreversible

With HAI\_USS:

- └ Agency tracked quantitatively
- └ Early warning before crisis
- └ Intervention evidence-based
- └ Sovereignty verified

THE EQUATION:

- └  $\text{HAI\_USS} \geq 0.60$  = Human agency preserved
- └  $\text{HAI\_USS} < 0.40$  = Sovereignty compromised
- └  $\text{Dependency\_USS} \geq 0.65$  = Healthy relationship with AGI
- └ All above threshold = Psychological symbiosis

"Psychological sovereignty cannot be traded for convenience.

HAI\_USS ensures it isn't."

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## ## REFERENCES

- ANNEX Metrics Framework v3.3 — USS/CSI
- V12 Measurement Systems v1.1 — CSI formula
- V18 Demographic Decline v1.4 — HCI integration
- KODEX SYMBIOTA v5.3 — Article XLIV

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**\*\*END V22 v1.1 — USS/CSI INTEGRATED\*\***